

LISTING OF CLAIMS:

1. (Previously Presented) A modular building system comprising:
(a) multiple portable pre-cast modules, wherein each of the multiple modules comprise:
 (i) structural steel mesh;
 (ii) cementitious mortar encasing the structural steel mesh; and
 (iii) tapered indentations located along edges of the module and exposing portions of the structural steel mesh;
(b) metal plate connectors; and
(c) welds between the metal plate connectors and the exposed portions of the structural steel mesh thereby connecting adjacent modules;
 wherein the tapered indentations located along edges of the adjacent modules are aligned with each other, the metal plate connectors and the welds are situated in the aligned tapered indentations of the adjacent modules, and the adjacent modules form a wall.

2. (Previously Presented) The modular building system of claim 1, wherein each module includes a 90 degree appendix on opposite edges of the module.

3. (Previously Presented) The modular building system of claim 1, further comprising:

(d) epoxy resin on the edges of the module in contact with an adjacent module.

Claims 4 to 8. (Canceled).

9. (Previously Presented) The modular building system of claim 1, further comprising:

(e) reinforcing steel mesh; and
(f) at least one of (i) solder and (ii) ties connecting the reinforcing steel mesh and the structural steel mesh.

Claim 10. (Canceled).

11. (Previously Presented) The modular building system of claim 1, wherein the module is one of: (i) a square, (ii) a rectangle, (iii) a triangle, and (iv) a trapezoid.

12. (Previously Presented) The modular building system of claim 1, wherein the structural steel mesh comprises steel bars having a yield stress between 4000 and 6000 kg/cm².

13. (Previously Presented) The modular building system of claim 1, wherein the structural steel mesh comprises steel bars having a diameter of 4 mm and a spacing of 100 mm x 50 mm and 100 mm x 100 mm.

14. (Previously Presented) The modular building system of claim 1, wherein the module has an overall dimension of 1500 mm x 250 mm.

15. (Previously Presented) The modular building system of claim 1, wherein the module has an overall dimension of 750 mm x 250 mm.

16. (Previously Presented) The modular building system of claim 2, wherein each 90 degree appendix has a length between 30 mm and 100 mm from the edge of the module.

17. (Previously Presented) The modular building system of claim 16, wherein each 90 degree appendix has a length of approximately 50 mm from the edge of the module.

18. (Previously Presented) The modular building system of claim 1, wherein the cementitious mortar includes Portland cement, water, and sand having a maximum particle size of 4.8 mm.

19. (Previously Presented) The modular building system of claim 1, wherein the module has a thickness of approximately 40 mm.

20. (Previously Presented) The modular building system of claim 9, wherein the tapered indentations located along edges of the module expose portions of the reinforcing steel mesh.

21. (Previously Presented) The modular building system of claim 1, further comprising:

(g) cementitious mortar filling voids in the tapered indentations between the cementitious mortar encasing the structural steel mesh, the metal plate connectors, and the welds.

22. (Previously Presented) The modular building system of claim 1, wherein the multiple portable pre-cast modules are placed at least one of (i) horizontally adjacent and (ii) vertically adjacent to one another to form a wall.

23. (Previously Presented) The modular building system of claim 2, wherein the 90 degree appendix forms a vertical appendix on opposite edges of the module.